

---

# Zeitschrift für Physik C

# Particles and Fields

Unter Mitwirkung der Deutschen Physikalischen Gesellschaft

---

**Volume 10 · 1981**

Editors in Chief:

G. Kramer, Hamburg

H. Satz, Bielefeld

Editors:

R. Barbieri, Pisa

T. Ferbel, Rochester

K. Fujikawa, Tokyo

K. Gottfried, Ithaca

K. Kajantie, Helsinki

A. Krzywicki, Orsay

P. V. Landshoff, Cambridge

P. Söding, Hamburg

B. Stech, Heidelberg

J. Steinberger, Geneva

F. Wilczek, Santa Barbara

Coordinating Editor  
of Sections A, B and C:

O. Haxel, Heidelberg



**Springer-Verlag Berlin Heidelberg New York**

---

**Copyright** It is a fundamental condition that submitted manuscripts have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations. Photographic reproduction, microform, or any other reproduction of text, figures, or tables from this journal is prohibited without permission obtained from the publishers.

**Special Regulations for the USA** The Article Free Code on the first page of an article in this journal indicates the copyright owner's consent that in the USA copies may be made for personal or internal use, provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law is paid through the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA. If a code does not appear copies of the article may be made without charge, provided permission is obtained from the publisher.

The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

The use of general descriptive names, trade marks, etc., in this publication, even if the former are not specifically identified, is not to be taken as a sign that such names are exempt from the relevant protective laws and regulations and may accordingly be used freely by anyone.

Springer-Verlag Berlin, Heidelberg, New York – Printers: Brühlsche Universitätsdruckerei, Giessen – Printed in Germany  
© Springer-Verlag GmbH & Co KG Berlin, Heidelberg 1981

# Contents

Aguilar-Benitez, M., Done, P.J., Martin, A. D.: Interference Effects in $K^+p \rightarrow K^+K^+A$ at 4.2 GeV/c and the Threshold $KK^+S$ Wave Amplitude . . . . .	299
Al-Agil, I., see Brandelik, R., et al. . . . .	117
Albajar, C., see Lyons, L., et al. . . . .	215
Apeldoorn, G.W. van, see Karimäki, V., et al. . . . .	189
Aubert, J.J., Bassompierre, G., Becks, K.H., Best, C., Böhm, E., Bouard, X. de, Brasse, F.W., Broll, C., Brown, S., Carr, J., Clift, R.W., Cobb, J.H., Coignet, G., Combley, F., Court, G.R., Crespo, J.M., Dalpiaz, P.F., Dalpiaz, P., Dau, W.D., Davies, J.K., Déclais, Y., Dobinson, R.W., Dosselli, U., Drees, J., Edwards, A., Edwards, M., Favier, J., Ferrero, M.I., Flauger, W., Gabathuler, E., Gamet, R., Gayler, J., Gerhardt, V., Ghez, P., Gössling, C., Gregory, P., Haas, J., Hahn, U., Hamacher, K., Hayman, P., Henckes, M., Jokisch, H., Korbel, V., Landgraf, U., Leenen, M., Maire, M., Massonnet, L., Mohr, W., Montgomery, H.E., Moser, K., Mount, R.P., Nagy, E., Norton, P.R., McNicholas, J., Osborne, A.M., Payre, P., Peroni, C., Pessard, H., Pietrzyk, U., Rith, K., Schlösser, E., Schneegans, M., Sloan, T., Stier, H.E., Stockhausen, W., Thénard, J.M., Thompson, J.C., Urban, L., Wahlen, H., Williams, D., Williams, W.S.C., Wimpenny, S.J.: A measurement of Wide Angle Bremsstrahlung in a High Energy Muon Scattering Experiment as a Check on the Consistency of Radiative Correction Calculations. . . . .	101
Azimov, S.A., Chernova, L.P., Gulamov, K.G., Kabulniyazov, Kh.D., Petrov, V.I., Scripnik, N.S.: Forward and Backward Multiplicities in High-Energy Proton-Nucleus and Proton-Nucleon Collisions . . . . .	1
Badyal, S.K., see Gupta, V.K., et al. . . . .	29
Baland, J.F., see Barth, M., et al. . . . .	205
Barklow, T., see Brandelik, R., et al. . . . .	117
Barnes, T.: A Transverse Gluonium Potential Model With Breit-Fermi Hyperfine Effects . . . . .	275
Barth, M., Clercq, C. De, Wolf, E.A. De, Dumont, J.J., Johnson, D.P., Lemonne, J., Peeters, P., Drevermann, H., Goldschmidt-Clermont, Y., Harigel, G., Milstene, C., Porte, J.P., Ross, R.T., Spyropoulou-Stassinaki, M., Squarcia, S., Theocharopoulos, P., Vassiliadis, G., Caso, C., Contri, R., Fontanelli, F., Monge, R., Trevisan, U., Baland, J.F., Beaufays, J., Hanton, J., Grard, F., Poel, P.A. van der, Gagnon, L., Kittel, W., Metzger, W.J., Schotanus, D.J., Stergiou, A., Walle, R.T. Van de, Belokopitov, Y., Chliapnikov, P., Fenyuk, A., Gerdyukov, L., Gritsaenko, I., Khromova, G., Kubic, V., Lugovsky, S., Nikolaenko, V., Petrovykh, Y., Ronjin, V., Vorobjev, A., Yarba, V.: Inclusive $\Lambda$ and $\bar{\Lambda}$ Production in $K^+p$ Interactions at 70 GeV/c . . . . .	205
Bassompierre, G., see Aubert, J.J., et al. . . . .	101
Beaufays, J., see Barth, M., et al. . . . .	205
Becks, K.H., see Aubert, J.J., et al. . . . .	101
Beletsky, Yu.A., Bugrij, A.I., Trushevsky, A.A.: Phase Transitions and Fluctuations in Ultrarelativistic Matter with the Van der Waals Equation of State . . . . .	317
Bell, K.W., see Brandelik, R., et al. . . . .	117
Belokopitov, Y., see Barth, M., et al. . . . .	205
Bertlmann, R.A., Ono, S.: Rigorous Bounds on Quark Masses Within a Nonrelativistic Approach . . . . .	37
Best, C., see Aubert, J.J., et al. . . . .	101
Beuselinck, R., see Brandelik, R., et al. . . . .	117
Binnie, D.M., see Brandelik, R., et al. . . . .	117
Böhm, E., see Aubert, J.J., et al. . . . .	101
Boerner, H., see Brandelik, R., et al. . . . .	117
Bouard, X. de, see Aubert, J.J., et al. . . . .	101
Brandelik, R., Braunschweig, W., Gather, K., Kirschfink, F.J., Lübelmeyer, K., Martyn, H.-U., Peise, G., Rimkus, J., Sander, H.G., Schmitz, D., Schultz von Dratzig, A., Trines, D., Wallraff, W., Boerner, H., Fischer, H.M., Hartmann, H., Hilger, E., Hillen, W., Knop, G., Köpke, L., Kolanoski, H., Leu, P., Wedemeyer, R., Wermes, N., Wollstadt, M., Burkhardt, H., Cassel, D.G., Cooper, S., Heyland, D., Hultschig, H., Joos, P., Koch, W., Koehler, P., Kötz, U., Kowalski, H., Ladage, A., Lüke, D., Lynch, H.L., Mättig, P., Notz, D., Pyrlík, J., Riethmüller, R., Söding, R., Wiik, B.H., Wolf, G., Fohrmann, R., Holder, M., Poelz, G., Römer, O., Rüscher, R., Schmüser, P., Al-Agil, I., Beuselinck, R., Binnie, D.M., Dornan, P.J., Garbutt, D.A., Jones, W.G., Lloyd, S.L., Pandoulas, D., Sedgbeer, J., Stern, R.A., Yarker, S., Brock, I.C., Cashmore, R.J., Devenish, R., Grossmann, P., Illingworth, J., Ogg, M., Salmon, G.L., Wyatt, T.R., Youngman, C., Bell, K.W., Foster, B., Hart, J.C., Proudfoot, J., Quarrie, D.R., Saxon, D.H., Woodworth, P.L., Duchovni, E., Eisenberg, Y., Karshon, U., Mikenberg, G., Revel, D., Ronat, E., Shapira, A., Barklow, T., Freeman, J., Lecomte, P., Meyer, T., Rudolph, G., Wicklund, E., Sau Lan Wu, Zobernig, G.: Two-Photon Excitation of the Tensor Meson $f^0$ (1270) . . . . .	117
Brasse, F.W., see Aubert, J.J., et al. . . . .	101
Braunschweig, W., see Brandelik, R., et al. . . . .	117
Brock, I.C., see Brandelik, R., et al. . . . .	117
Broll, C., see Aubert, J.J., et al. . . . .	101
Brown, S., see Aubert, J.J., et al. . . . .	101
Bugrij, A.I., see Beletsky, Yu.A., et al. . . . .	317
Burkhardt, H., see Brandelik, R., et al. . . . .	117
Capella, A., Tran Thanh Van, J.: Hadron-Nucleus Interactions and the Leading Particle Effect in a Dual-Parton Model . . . . .	249
Carr, J., see Aubert, J.J., et al. . . . .	101
Cashmore, R.J., see Brandelik, R., et al. . . . .	117
Caso, C., see Barth, M., et al. . . . .	205
Cassel, D.G., see Brandelik, R., et al. . . . .	117
Chernova, L.P., see Azimov, S.A., et al. . . . .	1
Chliapnikov, P., see Barth, M., et al. . . . .	205
Clercq, C. De, see Barth, M., et al. . . . .	205
Clift, R.W., see Aubert, J.J., et al. . . . .	101
Cobb, J.H., see Aubert, J.J., et al. . . . .	101
Coignet, G., see Aubert, J.J., et al. . . . .	101
Combley, F., see Aubert, J.J., et al. . . . .	101
Contri, R., see Barth, M., et al. . . . .	205
Cooper, S., see Brandelik, R., et al. . . . .	117
Court, G.R., see Aubert, J.J., et al. . . . .	101
Crespo, J.M., see Aubert, J.J., et al. . . . .	101
Crispin-Romão, J.: Superplane Integrability and Three Dimensional Supergravity . . . . .	17
Daftari, I.K., see Gupta, V.K., et al. . . . .	29

- Dalpiaz, P., see Aubert, J.J., et al. . . . . 101  
 Dalpiaz, P.F., see Aubert, J.J., et al. . . . . 101  
 Dau, W.D., see Aubert, J.J., et al. . . . . 101  
 Davies, J.K., see Aubert, J.J., et al. . . . . 101  
 Déclais, Y., see Aubert, J.J., et al. . . . . 101  
 Devenish, R., see Brandelik, R., et al. . . . . 117  
 Dittmann, P., Hepp, V.: Tests of QED and Elektroweak Theories at PETRA . . . . . 283  
 Dobinson, R.W., see Aubert, J.J., et al. . . . . 101  
 Done, P.J., see Irving, A.C., et al. . . . . 45  
 Done, P.J., see Aguilar-Benitez, M., et al. . . . . 299  
 Donnachie, A., Horgan, R.R., Landshoff, P.V.: Nonrelativistic Wave Functions in Relativistic Physics . . . . . 71  
 Dornan, P.J., see Brandelik, R., et al. . . . . 117  
 Dosselli, U., see Aubert, J.J., et al. . . . . 101  
 Drees, J., see Aubert, J.J., et al. . . . . 101  
 Drevermann, H., see Barth, M., et al. . . . . 205  
 Dubovik, V.M., Obukhovskiy, I.T.: Quark-Nuclear Approach to the Study of the Parity Violating Effects in the Few-Nucleon Systems. Circular Polarization of Photons at Radiative Capture of Thermal Neutrons by Protons . . . . . 123  
 Duchovni, E., see Brandelik, R., et al. . . . . 117  
 Dumont, J.J., see Barth, M., et al. . . . . 205  
 Dziembowski, Z., Metzger, W.J., Walle, R.T. Van de: Diquark Clustering and the Neutron Charge Radius . . . . . 231  
 Edwards, A., see Aubert, J.J., et al. . . . . 101  
 Edwards, M., see Aubert, J.J., et al. . . . . 101  
 Eisenberg, Y., see Brandelik, R., et al. . . . . 117  
 Faissner, H., Frenzel, E., Grimm, M., Hansl, T., Hoffmann, D., Radermacher, E., Reithler, H., Samm, U., Tuchscherer, H., Witt, H.: Observation of Anomalous Muon-Electron Pairs in a Neutrino Exposure . . . . . 95  
 Favier, J., see Aubert, J.J., et al. . . . . 101  
 Fenyuk, A., see Barth, M., et al. . . . . 205  
 Ferrero, M.I., see Aubert, J.J., et al. . . . . 101  
 Fischer, H.M., see Brandelik, R., et al. . . . . 117  
 Fisjak, Yu.V., Kistenev, E.P.: Hadroproduction of Hyperons in the Framework of the Quark-Parton Model . . . . . 307  
 Flauger, W., see Aubert, J.J., et al. . . . . 101  
 Fohrmann, R., see Brandelik, R., et al. . . . . 117  
 Fontanelli, F., see Barth, M., et al. . . . . 205  
 Foster, B., see Brandelik, R., et al. . . . . 117  
 Franz, J., Guzielski, G., Huber, G., Mecklenbrauck, G., Mecklenbrauck, W., Rösse, E., Glawe, U., Strobusch, U., Johnsson, B., Johnsson, G.G., Petersson, R.: Total Cross Section for Inclusive Electron Scattering in the Low  $Q^2$  Region . . . . . 105  
 Fredriksson, S., Jädel, M.: Probing the Space-Time Structure of Multiparticle Production Processes . . . . . 185  
 Freeman, J., see Brandelik, R., et al. . . . . 117  
 Frenzel, E., see Faissner, H., et al. . . . . 95  
 Fukuyama, T.: Gauge Theory of Gravity. II. Reciprocity and Confinement . . . . . 9  
 Gabathuler, E., see Aubert, J.J., et al. . . . . 101  
 Gamet, R., see Aubert, J.J., et al. . . . . 101  
 Garbutt, D.A., see Brandelik, R., et al. . . . . 117  
 Gather, K., see Brandelik, R., et al. . . . . 117  
 Gagnon, L., see Barth, M., et al. . . . . 205  
 Gavai, R.V., Roy, D.P.: Intrinsic Charm and Photon-Gluon Fusion Contributions to Muonproduction of Charm . . . . . 333  
 Gayler, J., see Aubert, J.J., et al. . . . . 101  
 Gerdyukov, L., see Barth, M., et al. . . . . 205  
 Gerhardt, V., see Aubert, J.J., et al. . . . . 101  
 Ghez, P., see Aubert, J.J., et al. . . . . 101  
 Girardi, G., Mery, P., Sorba, P.: What Happens in  $p\bar{p}$  Collisions if There is More than One Neutral Gauge Boson? . . . . . 363  
 Glawe, U., see Franz, F., et al. . . . . 105  
 Gössling, C., see Aubert, J.J., et al. . . . . 101  
 Goldschmidt-Clermont, Y., see Barth, M., et al. . . . . 205  
 Grard, F., see Barth, M., et al. . . . . 205  
 Gregory, P., see Aubert, J.J., et al. . . . . 101  
 Grimm, M., see Faissner, H., et al. . . . . 95  
 Gritsaenko, I., see Barth, M., et al. . . . . 205  
 Groot, E.H. de, Schildknecht, D.: General Electroweak Mixing Models and Extended Gauge Theories . . . . . 55  
 Groot, E.H. de, Schildknecht, D.: Extended Gauge Theories of the Electroweak Interaction . . . . . 139  
 Grossmann, P., see Brandelik, R., et al. . . . . 117  
 Gulamov, K.G., see Azimov, S.A., et al. . . . . 1  
 Gupta, V.K., Badyal, S.K., Daftari, I.K., Kaul, G.L., Mangotra, L.K., Rao, N.K., Sharma, S.K., Singh, G., Prakash, Y.: Target Mass Dependence of Charged Particle Multiplicity in  $p$ -Nucleus Interactions . . . . . 29  
 Guzielski, G., see Franz, J., et al. . . . . 105  
 Haas, J., see Aubert, J.J., et al. . . . . 101  
 Hahn, U., see Aubert, J.J., et al. . . . . 101  
 Hamacher, K., see Aubert, J.J., et al. . . . . 101  
 Hansl, T., see Faissner, H., et al. . . . . 95  
 Hanton, J., see Barth, M., et al. . . . . 205  
 Harigel, G., see Barth, M., et al. . . . . 205  
 Hart, J.C., see Brandelik, R., et al. . . . . 117  
 Harting, D., see Karimäki, V., et al. . . . . 189  
 Hartmann, H., see Brandelik, R., et al. . . . . 117  
 Hayman, P., see Aubert, J.J., et al. . . . . 101  
 Henckes, M., see Aubert, J.J., et al. . . . . 101  
 Hepp, V., see Dittmann, P. . . . . 283  
 Heyland, D., see Brandelik, R., et al. . . . . 117  
 Hilger, E., see Brandelik, R., et al. . . . . 117  
 Hillen, W., see Brandelik, R., et al. . . . . 117  
 Hoffmann, D., see Faissner, H., et al. . . . . 95  
 Hofmann, W.: Inclusive Production of Baryons in Decays of the  $Y(9.46)$  and in Quark Jets . . . . . 351  
 Holder, M., see Brandelik, R., et al. . . . . 117  
 Holthuisen, D.J., see Karimäki, V., et al. . . . . 189  
 Horgan, R.R., see Donnachie, A., et al. . . . . 71  
 Huber, G., see Franz, J., et al. . . . . 105  
 Hüffel, H.: More on Higgs Bosons in  $SU(5)$  . . . . . 327  
 Hultschig, H., see Brandelik, R., et al. . . . . 117  
 Illingworth, J., see Brandelik, R., et al. . . . . 117  
 Irving, A.C., Martin, A.D., Done, P.J.: On the Nature of the  $S^8$  and related Scalar Resonances . . . . . 45  
 Jädel, M., see Fredriksson, S. . . . . 185  
 Johnson, D.P., see Barth, M., et al. . . . . 205  
 Johnson, P., see Karimäki, V., et al. . . . . 189  
 Johnsson, B., see Franz, J., et al. . . . . 105  
 Jokisch, H., see Aubert, J.J., et al. . . . . 101  
 Jones, W.G., see Brandelik, R., et al. . . . . 117  
 Jonsson, G.G., see Franz, J., et al. . . . . 105  
 Joos, P., see Brandelik, R., et al. . . . . 117  
 Jung, M., Kattein, J., Kück, H., Leu, P., Marné, K.-D. de, Wedemeyer, R., Wermes, N.: Differential Cross Sections of Proton Compton Scattering at Photon Laboratory Energies Between 700 and 1000 MeV . . . . . 197  
 Kabulniyazov, Kh.D., see Azimov, S.A., et al. . . . . 1  
 Karimäki, V., Kinnunen, R., Korkea-aho, M., Maalampi, J., Tuominiemi, J., Apeldoorn, G.W. van, Harting, D., Holthuisen, D.J., Pijlgrims, B.J., Johnson, P., Mason, P., Muirhead, H., Patel, G.D.: Inclusive  $\Sigma^+$  (1385) Production in  $p\bar{p}$  Interactions at 12 GeV/c . . . . . 189  
 Karshon, U., see Brandelik, R., et al. . . . . 117  
 Kattein, J., see Jung, M., et al. . . . . 197  
 Kaul, G.L., see Gupta, V.K., et al. . . . . 29  
 Kephart, T.W., Vaughn, M.T.: Renormalization of Scalar Quartic and Yukawa Couplings in Unified Gauge Theories Based on  $E_6$  . . . . . 267  
 Khromova, G., see Barth, M., et al. . . . . 205  
 Kinnunen, R., see Karimäki, V., et al. . . . . 189  
 Kirschfink, F.J., see Brandelik, R., et al. . . . . 117  
 Kistenev, E.P., see Fisjak, Yu.V. . . . . 307  
 Kittel, W., see Barth, M., et al. . . . . 205  
 Knop, G., see Brandelik, R., et al. . . . . 117  
 Koch, W., see Brandelik, R., et al. . . . . 117  
 Koehler, P., see Brandelik, R., et al. . . . . 117  
 Köpke, L., see Brandelik, R., et al. . . . . 117  
 Kötze, U., see Brandelik, R., et al. . . . . 117  
 Kolanoski, H., see Brandelik, R., et al. . . . . 117  
 Korbel, T., see Aubert, J.J., et al. . . . . 101  
 Korkea-aho, M., see Karimäki, V., et al. . . . . 189  
 Kowalski, H., see Brandelik, R., et al. . . . . 117  
 Kubic, P., see Barth, M., et al. . . . . 205  
 Kück, H., see Jung, M., et al. . . . . 197  
 Ladage, A., see Brandelik, R., et al. . . . . 117  
 Lambert, F., Musette, M.: Solitons and Poles in the Nonlinearity Parameter . . . . . 357  
 Landgraf, U., see Aubert, J.J., et al. . . . . 101  
 Landshoff, P.V., see Donnachie, A., et al. . . . . 71  
 Laursen, M.L., Samuel, M.A.: On the Connection Between the Vacuum Polarization Potential in Muonic Atoms and  $g-2$  of the Muon . . . . . 77  
 Lecomte, P., see Brandelik, R., et al. . . . . 117  
 Leenen, M., see Aubert, J.J., et al. . . . . 101  
 Lemonne, J., see Barth, M., et al. . . . . 205  
 Leu, P., see Brandelik, R., et al. . . . . 117  
 Leu, P., see Jung, M., et al. . . . . 197  
 Lloyd, S.L., see Brandelik, R., et al. . . . . 117  
 Lübelmeyer, K., see Brandelik, R., et al. . . . . 117  
 Lücke, D., see Brandelik, R., et al. . . . . 117  
 Lugovsky, S., see Barth, M., et al. . . . . 205  
 Lynch, H.L., see Brandelik, R., et al. . . . . 117  
 Lyons, L., Albajar, C., Myatt, G.: An Experimental Limit on the Decay  $K^+ \rightarrow \mu^+ \nu_\mu$  . . . . . 215  
 Maalampi, J., see Karimäki, V., et al. . . . . 189  
 MacNaughton, J.: A Test of the Validity of the Extraction of  $K^+ \pi^-$  Scattering in the Reaction  $K^+ p \rightarrow K^+ \pi^- d^{++}$  in the

Framework of the One-Pion-Exchange Model . . . . .	341	Poel, P.A. Vander, see Barth, M., et al. . . . .	205	Stergiou, A., see Barth, M., et al. . . . .	205
Mättig, P., see Brandelik, R., et al. . . . .	117	Poelz, G., see Brandelik, R., et al. . . . .	117	Stern, R.A., see Brandelik, R., et al. . . . .	117
Maire, M., see Aubert, J.J., et al. . . . .	101	Porte, J.P., see Barth, M., et al. . . . .	205	Stier, H.E., see Aubert, J.J., et al. . . . .	101
Mangotra, L.K., see Gupta, V.K., et al. . . . .	29	Prakash, Y., see Gupta, V.K., et al. . . . .	29	Stockhausen, W., see Aubert, J.J., et al. . . . .	101
Marchesoni, F., Ruffo, S.: An Analysis of Intermediate Transverse Momentum Pion and Photon Production in $pp$ Collisions Through a QCD Resummation Mechanism . . . . .	153	Proudfoot, J., see Brandelik, R., et al. . . . .	117	Storrow, J.K., see Rahnama, M. . . . .	263
Marné, K.-D. de, see Jung, M., et al. . . . .	197	Pyrlik, J., see Brandelik, R., et al. . . . .	117	Strohbush, U., see Franz, J., et al. . . . .	105
Martin, A.D., see Irving, A.C., et al. . . . .	45	Qing Chengrui, Qin Danhua: A Discussion of the Relativistic Equal-Time Equation . . . . .	239	Tainov, E.A.: Duality in $e^+e^-$ Annihilation . . . . .	87
Martin, A.D., see Aguilar-Benitez, M., et al. . . . .	299	Quarrie, D.R., see Brandelik, R., et al. . . . .	117	Takahashi, K.: Dynamical Symmetry Breaking in the $SU(2)$ Gauge Theory. . . . .	221
Martyn, H.-U., see Brandelik, R., et al. . . . .	117	Quin Danhua, see Qing Chengrui . . . . .	239	Teper, M.J., see Maxwell, C.J. . . . .	175
Mason, P., see Karimäki, V., et al. . . . .	189	Radermacher, E., see Faissner, H., et al. . . . .	95	Thénard, J.M., see Aubert, J.J., et al. . . . .	101
Massonnet, L., see Aubert, J.J., et al. . . . .	101	Rahnama, M., Storrow, J.K.: Exchange of $A_1$ and $Z_1$ ( $J^P = 2^-$ ) Mesons in Charged Pion Photoproduction . . . . .	263	Theocharopoulos, P., see Barth, M., et al. . . . .	205
Maxwell, C.J., Teper, M.J.: Measuring the Charges of QCD Jets . . . . .	175	Rao, N.K., see Gupta, V.K., et al. . . . .	29	Thompson, J.C., see Aubert, J.J., et al. . . . .	101
McNicholas, J., see Aubert, J.J., et al. . . . .	101	Rauh, K.G.: Weak Radiative Hyperon Decays in the Pole Model . . . . .	81	Tran Thanh Van, J., see Barth, M., et al. . . . .	249
Mecklenbrauck, G., see Franz, J., et al. . . . .	105	Reithler, H., see Faissner, H., et al. . . . .	95	Trevisan, U., see Barth, M., et al. . . . .	205
Mecklenbrauck, W., see Franz, J., et al. . . . .	105	Revel, D., see Brandelik, R., et al. . . . .	117	Trines, D., see Brandelik, R., et al. . . . .	117
Mery, P., see Girardi, G., et al. . . . .	363	Riethmüller, R., see Brandelik, R., et al. . . . .	117	Trushkevsky, A.A., see Beletsky, Yu.A., et al. . . . .	317
Metzger, W.J., see Barth, M., et al. . . . .	205	Rimkus, J., see Brandelik, R., et al. . . . .	117	Tuchscherer, H., see Faissner, H., et al. . . . .	95
Metzger, W.J., see Dziembowski, Z., et al. . . . .	231	Rith, K., see Aubert, J.J., et al. . . . .	101	Tuominiemi, J., see Karimäki, V., et al. . . . .	189
Meyer, T., see Brandelik, R., et al. . . . .	117	Robson, D., Webber, D.M.: The Gauge Boson Sector of $U(1)$ Lattice Theories. . . . .	159	Urban, L., see Aubert, J.J., et al. . . . .	101
Michael, C., Wilk, G.: Is Heavy Lepton Pair Production on Nuclei Really Independent of Nuclear Size? . . . . .	169	Römer, O., see Brandelik, R., et al. . . . .	117	Vassiliadis, G., see Barth, M., et al. . . . .	205
Mikenberg, G., see Brandelik, R., et al. . . . .	117	Rössle, E., see Franz, J., et al. . . . .	105	Vaughn, M.T., see Kephart, T.W. . . . .	267
Milstone, C., see Barth, M., et al. . . . .	205	Ronat, E., see Brandelik, R., et al. . . . .	117	Vorobjev, A., see Barth, M., et al. . . . .	205
Mohr, W., see Aubert, J.J., et al. . . . .	101	Ronjin, V., see Barth, M., et al. . . . .	205	Vysotsky, M.I., see Shifman, M.A. . . . .	131
Monge, R., see Barth, M., et al. . . . .	205	Ross, R.T., see Barth, M., et al. . . . .	205	Wahlen, H., see Aubert, J.J., et al. . . . .	101
Montgomery, H.E., see Aubert, J.J., et al. . . . .	101	Roy, D.P., see Gavai, R.V. . . . .	333	Walle, R.T. Van de, see Barth, M., et al. . . . .	205
Moser, K., see Aubert, J.J., et al. . . . .	101	Rudolph, G., see Brandelik, R., et al. . . . .	117	Walle, R.T. Van de, see Dziembowski, Z., et al. . . . .	231
Mount, R.P., see Aubert, J.J., et al. . . . .	101	Rüsch, R., see Brandelik, R., et al. . . . .	117	Wallraff, W., see Brandelik, R., et al. . . . .	117
Muirhead, H., see Karimäki, V., et al. . . . .	189	Ruffo, S., see Marchesoni, F. . . . .	153	Webber, D.M., see Robson, D. . . . .	159
Musette, M., see Lambert, F. . . . .	357	Salmon, G.L., see Brandelik, R., et al. . . . .	117	Wedemeyer, R., see Brandelik, R., et al. . . . .	117
Myatt, G., see Lyons, L., et al. . . . .	215	Samm, U., see Faissner, H., et al. . . . .	95	Wedemeyer, R., see Jung, M., et al. . . . .	197
Nagy, E., see Aubert, J.J., et al. . . . .	101	Samuel, M.A., see Laursen, M.L. . . . .	77	Wermes, N., see Brandelik, R., et al. . . . .	117
Nikolaenko, V., see Barth, M., et al. . . . .	205	Sander, H.G., see Brandelik, R., et al. . . . .	117	Wermes, N., see Jung, M., et al. . . . .	197
Norton, P.R., see Aubert, J.J., et al. . . . .	101	Sau Lan Wu, see Brandelik, R., et al. . . . .	117	Wicklund, E., see Brandelik, R., et al. . . . .	117
Notz, D., see Brandelik, R., et al. . . . .	117	Saxon, D.H., see Brandelik, R., et al. . . . .	117	Wiik, B.H., see Brandelik, R., et al. . . . .	117
Obukhovskiy, I.T., see Dubovik, V.M. . . . .	123	Schildknecht, D., see Groot, E.H. de . . . . .	55	Wilk, G., see Michael, C. . . . .	169
Ogg, M., see Brandelik, R., et al. . . . .	117	Schildknecht, D., see Groot, E.H. de . . . . .	139	Williams, D., see Aubert, J.J., et al. . . . .	101
Ono, S., see Bertlmann, R.A. . . . .	37	Schlösser, E., see Aubert, J.J., et al. . . . .	101	Williams, W.S.C., see Aubert, J.J., et al. . . . .	101
Osborne, A.M., see Aubert, J.J., et al. . . . .	101	Schmitz, D., see Brandelik, R., et al. . . . .	117	Wimpenny, S.J., see Aubert, J.J., et al. . . . .	101
Pandoulas, D., see Brandelik, R., et al. . . . .	117	Schmüser, P., see Brandelik, R., et al. . . . .	117	Witt, H. de, see Faissner, H., et al. . . . .	95
Pasupathy, J., Singh, V.: Higher Order JWKB Expressions for the Energy Levels and the Wavefunction at the Origin. . . . .	23	Schneegans, M., see Aubert, J.J., et al. . . . .	101	Wolf, E.A. De, see Barth, M., et al. . . . .	205
Patel, G.D., see Karimäki, V., et al. . . . .	189	Schotanus, D.J., see Barth, M., et al. . . . .	205	Wolf, G., see Brandelik, R., et al. . . . .	117
Payre, P., see Aubert, J.J., et al. . . . .	101	Schultz von Dratzig, A., see Brandelik, R., et al. . . . .	117	Wollstadt, M., see Brandelik, R., et al. . . . .	117
Peeters, P., see Barth, M., et al. . . . .	205	Scripnik, N.S., see Azimov, S.A., et al. . . . .	1	Woodworth, P.L., see Brandelik, R., et al. . . . .	117
Peise, G., see Brandelik, R., et al. . . . .	117	Shapira, A., see Brandelik, R., et al. . . . .	117	Wyatt, T.T., see Brandelik, R., et al. . . . .	117
Peroni, C., see Aubert, J.J., et al. . . . .	101	Sharma, S.K., see Gupta, V.K., et al. . . . .	29	Yarba, V., see Barth, M., et al. . . . .	205
Pessard, H., see Aubert, J.J., et al. . . . .	101	Shifman, M.A., Vysotsky, M.I.: Are the $\psi' \rightarrow \eta_c \gamma \psi' \rightarrow \eta_c \gamma$ Decays due to the Gluon Admixture? . . . . .	131	Yarker, S., see Brandelik, R., et al. . . . .	117
Peterson, R., see Franz, J., et al. . . . .	105	Sedgbeer, J., see Brandelik, R., et al. . . . .	117	Youngman, C., see Brandelik, R., et al. . . . .	117
Petrov, V.I., see Azimov, S.A., et al. . . . .	1	Singh, G., see Gupta, V.K., et al. . . . .	29	Zobernig, G., see Brandelik, R., et al. . . . .	117
Petrovykh, Y., see Barth, M., et al. . . . .	205	Singh, V., see Pasupathy, J. . . . .	23	Zsigmond, G., see Pócsik, G. . . . .	367
Pietrzyk, U., see Aubert, J.J., et al. . . . .	101	Sloan, T., see Aubert, J.J., et al. . . . .	101		
Pijlgroms, B.J., see Karimäki, V., et al. . . . .	189	Söding, R., see Brandelik, R., et al. . . . .	117		
Pócsik, G., Zsigmond, G.: On the Production of Neutral Higgs Bosons in the Weinberg-Salem Model with Two Higgs Doublets . . . . .	367	Sorba, P., see Girardi, G., et al. . . . .	363		
		Spyropoulou-Stassinaki, M., see Barth, M., et al. . . . .	205		
		Squarcia, S., see Barth, M., et al. . . . .	205		
		Stacey, R.: On a Proposed Non-Integral Topological Charge Solution. . . . .	149		

## Erratum

Castorina, P., Nardulli, G., Preparata, G.: Deep Inelastic Scattering on a Photon Target in the Massive Quark Model . . . . .	371
Nardulli, G., see Castorina, P., et al. . . . .	371
Preparata, G., see Castorina, P., et al. . . . .	371

Indexed in Current Contents

